

Notice of Allowability

Application No.

10/616,292

Applicant(s)

HOTTINEN, ARI

Examiner

Meless N. Zewdu

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/23/07.
2. ☒ The allowed claim(s) is/are 65.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
- ☒ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

1. This action is in response to the communication filed on 8/23/07.
2. Claims 1-65 are pending in this action.
3. Claims 1-65 are allowed.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Please amend the claims as follows:

In claim 1, on line 4, change "estimation," into --- estimation; ---,

In claim 1, on line 6, change "channels," into --- channels; ---,

In claim 1, on line 8, change "channels," into --- channels; ---,

In claim 1, on line 10, change "a receiver or a transmitter" into the receiver or the transmitter ---,

In claim 1, on line 9, change "the location" into --- a position ---,

In claim 4, on line 3, change "at least two" into -- the at least two ---,

In claim 5, on line 2, change "the map" into --- a map ---,

In claim 5, on line 4, change "a map" into --- the map ---,

In claim 15, on line 2, change "two identifier signals" into --- one identifier signals ---,

In claim 16, on line 2, change "two identifier signals" into --- one identifier signals ---,

In claim 21, on line 2, change "two identifier signals" into -- one identifier signals ---,

In claim 22, on line 2, change "the base station" into --- a base station ---,

In claim 23, on line 3, change "the terminal" into --- the receiver ---,

In claim 24, on line 2, change "the terminal" into the receiver ---,

In claim 25, on line 2, change "the received power" into --- a received power ---,

In claim 25, on line 3, change "the transmission direction" into --- a transmission direction ---,

In claim 26, on line 2, change "the location of the unit" into --- the position of the transmitter ---,

In claim 31, on line 7, change "elements" into --- elements; ---,

In claim 31, on line 9, change "estimation," into --- estimation; ---,

In claim 31, on line 10, change "signal," into --- signal; ---;

In claim 31, on line 13, change "channels" into --- channels; ---,

In claim 31, on line 15, change "a receiver or a transmitter" into --- a receiver or a transmitter ---,

In claim 59, on line 2, change "the received power" into --- a received power ---,

In claim 60, on line 5, change "directions," into --- directions; ---,

In claim 60, on line 7, change "directions," into --- directions; ---,

In claim 60, on line 9, change "channels," into --- channels; ---,

In claim 60, on line 6, change "through at" into --- through the at ---,

In claim 60, on lines 10-11, change "the location of a receiver or a transmitter" into – the position of the receiver or the transmitter ---,

In claim 61, on line 6, change "elements," into --- elements; ---,

In claim 61, on line 9, change "directions," into --- directions; ---,

In claim 61, on line 11, change "to different directions," into --- to said at least two different directions; ---,

In claim 61, on line 13, change "from different directions," into --- from the at least two different directions, ---,

In claim 61, on line 13, change "channels," into --- channels; ---,

In claim 61, on line 15, change "a receiver or a transmitter" into --- the receiver or the transmitter ---,

in claim 62, on line 7, change "a receiver or a" into --- the receiver or the ---,

In claim 63, on line 7, change "from different channels" into --- from said two different channels ---,

In claim 63, on line 3, change "elements," into --- elements; ---,

In claim 64, on line 5, change "at least two" into --- the at least two ---,

In claim 64, on line 6, change "a receiver or a" into --- the receiver or the ---,

In claim 64, on line 4, change "channels," into --- channels; ---,

In claim 65, on line 4, change "channels," into --- channels; ---,

In claim 65, on line 5, change "at least two" into --- the at least ---,

Allowable Subject Matter

Claims 1-65 are allowed.

The following is an examiner's statement of reasons for allowance:

As per claims 1-65: the claims are directed to estimating a location of a transmitter or receiver. The prior art of record does not teach or fairly suggest transmitting, at least one identifier signal via two different channels/directions which are received by a receiver configured to make an estimation of spatial signature of the two different channels based on which the position/location of the transmitter or the receiver is defined, as recited in claims 1, 31 and 60-65, and further argued by applicant.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Meless N. Zewdu whose telephone number is (571) 272-7873. The examiner can normally be reached on 8:30 am to 5:00 pm..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Appiah Charles can be reached on (571) 272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any inquiry of a general nature relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2600.

Meless Zewdu



Patent examiner

5 January 2007.